tiptel

Specification of Tiptel IP-Phones V60/V31

Features \ Model	IP 286	IP 284	IP 282	IP 280	IP 28 XS	VP 28
General						
Picture						
Chipset	TI TITAN	TI TITAN	TI TITAN	TI TITAN	TI TITAN	TI DAVINCI
Flash memory	8MB	8MB	8MB	8MB	4MB	256MB
SRAM memory	32MB	32MB	32MB	32MB	16MB	256MB
Dimension	273x204x42mm	273x204x42mm	185x200x90mm	185x200x90mm	xxmm	286x89x45mm
Weight (approx.)	1.05 KG	1.05 KG	0.77 KG	0.77 KG	xx KG	1.2 KG
Temperature	0-40°C	0-40°C	0-40°C	0-40°C	0-40°C	0-40°C
Humidity	10-90%	10-90%	10-90%	10-90%	10-90%	10-90%
Power consumption(approx.)	1.6-2.6W	1.6-2.6W	1.5-2.6W	1.4-2.6W	1.1-1.3W	4~10W
Connections						
LAN (PC port)	10/100Mb Ethernet	10/100Mb Ethernet	10/100Mb Ethernet	10/100Mb Ethernet	×	RJ-45 10/100Mb Ethernet
WAN (Internet port)	10/100Mb Ethernet	10/100Mb Ethernet	10/100Mb Ethernet	10/100Mb Ethernet	10/100Mb Ethernet	RJ-45 10/100Mb Ethernet
Adapter	Input : AC 100-240V Output : DC 5V/1.2A	Input : AC 100-240V Output : DC 5V/1.2A	Input : AC 100-240V Output : DC 5V/1.2A	Input : AC 100-240V Output : DC 5V/1.2A	Input : AC 100-240V Output : DC 5V/1.2A	Input : AC 100-240V Output : DC 5V/3A
PoE(802.3af) built-in	√	√	Optional	Optional	√	Optional
PoE(802.3af) class	Class 2	Class 2	Class 2	Class 2	Class 1	Class 0
Handset(RJ-9)	√	√	√	√	√	√
Headset(RJ-9)	√	√	√	√		2.5mm
Foot stand	√	√	√	√	√	×
Wall mounting	×	×	√	√	√	×
Expansion module	√	√	×	×	×	×
USB 2.0						√
SD interface						√
AV out						RCA stereo audio and composite video output
PSTN						Optional
User interface						
Display type	320x160 graphic LCD with 4-level grayscale	132x64 graphic LCD	132x64 graphic LCD	2x15 characters LCD	×	7-inch TFT-LCD
LCD Backlight	√	√	√	×	×	
Hard keys in all	48	45	32	31	20	27
Line keys	6	3	3	2	0	
DSS keys (except line keys)	10	10	x	x	2	
Soft keys	4	4	4	0	0	4
Navigation keys	6	6	6	6	0	5
Volume key	√	√	√	√	√	
Fixed feature keys	8 (Message/Headset/Conf/Hold/Mute/Tran/Redial/Handsfree)	8 (Message/Headset/Conf/Hold/Mute/Tran/Redial/Handsfree)	5 (Message/Headset/Tran/Redial/Handsfree)	9 (Menu/Hold/Conf/Contact/Message/Headset/Tran/Redial/Handsfree)	4 (Hold/Mute/Tran/Redial)	6 (Mute/Camera/Contact/Transfer/Redial/Hands-free)
Programmable keys	16	13	3	2	2	
Power and ring indicator LED	√	√	√	√	√	√
SIP Accounts indicator LED	√	√	√	√		
DSS keys with dual color LED	√	√	x	x		
Message indicator LED	√	√	√	√		
Headset indicator LED	√	√	x	x		
Camera						20M rotatable CMOS sensor
External device						
Yealink EXP38 expansion module	√	√	x	x	x	x
Yealink EXP39 LCD expansion module	√	√	x	x	x	x
Yealink EHS36 wireless headset adapter	√	√	x	x	x	x
Yealink YHS32 headset	√	√	√	√	x	x
USB mouse						√
USB flash disk						√
SD memory card						2GB at most
Voice						
HD voice	HD Codec HD Speaker HD Handset	HD Codec HD Speaker HD Handset	HD Codec HD Speaker HD Handset	HD Codec HD Speaker HD Handset	HD Codec	HD Codec HD Handset
Wideband codec	G.722	G.722	G.722	G.722	G.722	G.722
G.711 A-law/μ-law	√	√	√	√	√	√
G.726	√	√	√	√	√	√
G.723.1	√	√	√	√	√	√
G.729AB	√	√	√	√	√	√
iLbc/GSM	Optional	Optional	Optional	Optional	Optional	Optional

tiptel

Specification of Tiptel IP-Phones V60 / V31

Features \ Model	IP 286	IP 284	IP 282	IP 280	IP 28 XS	VP 28
HAC (Hearing aid compatibility)	√	√	√	√	√	√
VAD (Voice activity detection)	√	√	√	√	√	√
CNG (Comfort noise generator)	√	√	√	√	√	√
AEC (Acoustic echo canceling)	√	√	√	√	x	√
PLC (Packet loss concealment)	√	√	√	√	√	√
AJB (Adaptive jitter buffer)	√	√	√	√	√	√
AGC (Automatic gain control)	√	√	√	√	√	√
Side tone	√	√	√	√	√	√
Quality of Service(QoS)	802.1p/Q, ToS/DSCP	802.1p/Q, ToS/DSCP	802.1p/Q, ToS/DSCP	802.1p/Q, ToS/DSCP	802.1p/Q, ToS/DSCP	x
Telephony features						
SIP Accounts	16	13	3	2	1	4
Hands-free speakerphone	Full Duplex	Full Duplex	Full Duplex	Full Duplex	1	Full Duplex
Redial	√	√	√	√	√	√
Auto redial	√	√	√	√	x	√
Mute	√	√	√	√	√	√
3-way conferencing	√	√	√	√	√	x
Caller ID display	√	√	√	√	√	√
Call hold	√	√	√	√	√	√
Call waiting	√	√	√	√	√	√
Call transfer(blind/attended)	√	√	√	√	√	√
Call forward	√	√	√	√	√	√
Refuse incoming call	√	√	√	√	x	√
Call History(all/missed/ received/dialed/forwarded)	100 entries	100 entries	100 entries	100 entries	x	each 100 entries
Call History in web	√	√	√	√	x	x
DND	√	√	√	√	√	√
Auto answer	√	√	√	√	x	√
SMS	√	√	√	x	x	x
Voice mail	√	√	√	√	√	√
Message waiting indicator(MWI)	√	√	√	√	√	√
Speed Dial	√	√	√	√	√	√
Ringtone selection	√	√	√	√	√	√
Volume control	√	√	√	√	√	√
Import of individual ringtone	√	√	√	√	x	√
Tone setting	√	√	√	√	√	√
Phonebook	300 entries	300 entries	300 entries	300 entries	x	300 entries
Phonebook search/import/export	√	√	√	√	x	√
Group phonebook	√	√	√	√		√
Black list	√	√	√	√	x	√
Phone lock(keypad lock)	√	√	√	√	x	x
LCD display logo	√	√	√	√	x	√
# or * key as Send function	√	√	√	√	√	√
Hotline	√	√	√	√	√	√
Localized language	√	√	√	√	√	√
Reset to factory	√	√	√	√	√	√
Reboot	√	√	√	√	√	√
View Voice Mail	√	√	√	√	x	x
IVR (Integrated Voice Response)System	x	x	x	x	√	x
IP PBX and IP Centrex features						
BLF(Busy Lamp field)	√	√	√	√	x	x
BLA(Bridged Line Appearance)	√	√	√	√	x	x
Paging	√	√	√	√	x	x
Intercom	√	√	√	√	x	x
Call park	√	√	√	√	√	√
Call pickup	√	√	√	√	√	√
Call completion	√	√	√	√	x	x
Call recording	√	√	√	√	x	x
Anonymous call	√	√	√	√	√	√
Anonymous call rejection	√	√	√	√	√	√
Auto answer	√	√	√	√	x	√
Emergency call	√	√	√	√	x	√
Call return	√	√	√	√	x	√
Group pickup	√	√	√	√	√	x
Group listening	√	√	√	√	x	x
Distinctive Ringtone	√	√	√	√	√	√
Music on hold(via PBX)	√	√	√	√	√	√
Dial Plan	√	√	√	√	√	√
Dial now	√	√	√	√	√	√
Video conferencing via MCU	x	x	x	x	x	√
PUSH XML	√	√	√	x	x	x

tiptel

Specification of Tiptel IP-Phones V60 / V31

Features \ Model	IP 286	IP 284	IP 282	IP 280	IP 28 XS	VP 28
Network and Time						
WAN Static IP/DHCP	√	√	√	√	√	√
WAN PPPoE	√	√	√	√	x	√
PC port mode	Bridge/Router	Bridge/Router	Bridge/Router	Bridge/Router	x	Bridge
DHCP server for PC port	√	√	√	√	x	x
VLAN(802.1Q and 802.1P)	√	√	√	√	√	√
SNTP	√	√	√	√	x	√
NTP	√	√	√	√	x	√
Setup date and time by manual	√	√	√	√	x	√
Daylight saving time	√	√	√	√	x	√
IP V6	√	√	√	√	x	x
LLDP	√	√	√	√	x	x
Action URL& Active URI	√	√	√	√	x	x
Security						
HTTPS (server/client)	√	√	√	√	x	√
TLS (Transport Layer Security)	√	√	√	√	x	√
SRTP (RFC3711)	√	√	√	√	√	√
AES for auto-provision	√	√	√	√	√	√
3-level privilege	Admin/VAR/User	Admin/VAR/User	Admin/VAR/User	Admin/VAR/User	x	√
Web Interface						
Embedded web server	HTTP/HTTPS	HTTP/HTTPS	HTTP/HTTPS	HTTP/HTTPS	HTTP	HTTP/HTTPS
Edit phonebook via web	√	√	√	√	x	√
Send SMS via web	√	√	√	x	x	x
Dial via web	√	√	√	√	x	x
Web logout	√	√	√	√	x	x
Management(config/upgrade)						
Configuration via LCD	√	√	√	√	x	√
Configuration via web	√	√	√	√	√	√
Configuration via autoprovision	√	√	√	√	√	√
Automatic firmware update	√	√	√	√	√	√
Manual firmware update	√	√	√	√	√	√
Auto provisioning via LCD	√	√	√	√	x	√
Auto provisioning via Web	TFTP/FTP/HTTP/HTTPS	TFTP/FTP/HTTP/HTTPS	TFTP/FTP/HTTP/HTTPS	TFTP/FTP/HTTP/HTTPS	TFTP/FTP/HTTP	TFTP/FTP/HTTP/HTTPS
Auto provisioning with PnP	√	√	√	√	√	√
TR069	Optional	Optional	Optional	Optional	x	Optional
SNMP	Optional	Optional	Optional	Optional	x	x
Package tracing export	√	√	√	√	√	√
System log export	√	√	√	√	√	√
System log server	√	√	√	√	√	√
SIP						
SIP v1 (RFC2543)	√	√	√	√	√	√
SIP v2 (RFC3261)	√	√	√	√	√	√
UDP/TCP/TLS	√	√	√	√	√	√
Out-of-band DTMF(RFC 2833)	√	√	√	√	√	√
In-band DTMF	√	√	√	√	√	√
SIP INFO DTMF	√	√	√	√	√	√
STUN client (NAT traversal)	√	√	√	√	√	√
Rport (RFC3581)	√	√	√	√	√	√
Digest/basic authentication	Digest (MD5)	Digest (MD5)	Digest (MD5)	Digest (MD5)	Digest (MD5)	Digest (MD5)
Peer-to-peer SIP link mode	√	√	√	√	√	√
Loose routing and strict routing support	√	√	√	√	√	√
PRACK (RFC3262)	√	√	√	√	√	√
Error-information support	√	√	√	√	√	√
Reliability of provisional responses (RFC3262)	√	√	√	√	√	√
DNS SRV (RFC3263), redundant server support	√	√	√	√	x	x
Offer/answer (RFC3264)	√	√	√	√	√	√
Message Waiting Indication (RFC3842)	√	√	√	√	√	√
Subscription for MWI events (RFC3265)	√	√	√	√	√	√
Dialog-state monitoring (RFC 4235)	√	√	√	√	√	√
REFER (RFC3515)	√	√	√	√	√	√
Event list subscription support (RFC4662)	√	√	√	√	√	√
Advanced features						
XML phonebook (Central)	√	√	√	x	x	√

tiptel

Specification of Tiptel IP-Phones V60/V31

Features \ Model	IP 286	IP 284	IP 282	IP 280	IP 28 XS	VP 28
XML browser	√	√	√	×	×	√
Hot-desking	√	√	√	×	×	x
OpenVPN	√	√	×	×	×	x
802.1x	√	√	√	√	×	x
LDAP phonebook	√	√	√	×	×	√
Soft key programmable	√	√	√	×	x	√
Broadsoft Advanced Features						
DND & Forward synchronization	√	√	√	√	x	x
Network conference	√	√	√	√	x	x
BLF list	√	√	√	√	x	x
ACD	√	√	√	√	x	x
Network Phonebook	√	√	√	x	x	x
Network Call logs	√	√	√	x	x	x
Auto-P synchronization	√	√	√	√	x	x
Other features						
Certification	CE/FCC/A-tick	CE/FCC	CE/FCC/A-tick	CE/FCC	CE/FCC/A-tick	CE/FCC/A-tick
Broadsoft Validated	√	√	√	√		√
Asterisk/Digium Certificated	√	√	√	√		
Packing						
Giftbox size	310x290x110mm	310x290x110mm	275x220x105mm	275x220x105mm	xxmm	310x235x200 MM
PCS/CTN	5 PCS	5 PCS	10 PCS	10 PCS	5 PCS	4 PCS
Carton measure	580x320x300mm	580x320x300mm	565x550x235mm	565x550x235mm	xxmm	630x475x208 MM
N.W	7.90 KG	7.55 KG	12.20 KG	11.95 KG	xx KG	7.20 KG
G.W	9.20 KG	8.85 KG	13.60 KG	13.35 KG	xx KG	8.12 KG
Video Features						
Video codec						H.264 baseline2.0/ H.263
Bandwidth						128kbps~1Mbps
Frame rate						10fps~30fps
I-frame adjustable						√
Maximal video format						D1(720x480) with 30fps
Video call output resolution						VGA(640x480)/ CIF (352x288)
TV out format						PAL/NTSC
Image codec						JPEG, PNG, GIF, BMP
Picture-in-Picture (PIP)						√
Full screen of remote side						√
Local side video preview						√
Local side video open/close						√
Personalization						
Icon-driven menu						√
Multi desktop						√
Touch screen operation						√
Video manager (import/delete)						√
Photo manager (import/delete)						√
Wallpaper manager						√
Screen saver						√ (Photo or Video)
Sleep						√

Note: the grid filled with color means a new feature available with firmware V6.0. All data subject to change without prior notice. **12/2010**